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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 14.01.2019

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.
NAME OF THE ROAD	:	Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	415 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date : 14.01.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Woark : Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.

Name of Work : Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 14.01.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	136	13.60	21.40	78.6	75-100
1.18	148	14.80	36.20	63.8	55-90
600 Micron	235	23.50	59.70	40.3	35-59
300 Micron	165	16.50	76.20	23.8	8-30
150 Micron	148	14.80	91.00	9.0	0-10

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date : 14.01.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Woark : Improvements of re-asphalting Dasarahalli Main Road & other Roads , S Ramaiash, Ganesha Sawmill, Kempegowda Nagara & Maheshwari Nagara Roads Construction drain and Concrete Main roads &Cross roads of Vidyanagara Dasarahalli Ward No:15&39 (6-works) Package No. DZ 2017-18-(05), BBMP, Bangalore.

Name of Work : Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Date of Testing : 14.01.2019

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	169	1.13	1.13	98.87	95-100
20	8326	55.51	56.63	43.37	30-70
10	3526	23.51	80.14	19.86	10-35
4.75	2568	17.12	97.26	2.74	0-5

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 31.01.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work : Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road : Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2019	31.01.2019	8.124	326.5	14.51
2	24.01.2019	31.01.2019	8.136	352.6	15.67
3	24.01.2019	31.01.2019	8.145	342.5	15.22

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Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 21.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2019	21.02.2019	8.246	524.6	23.32
2	24.01.2019	21.02.2019	8.253	513.2	22.81
3	24.01.2019	21.02.2019	8.234	498.3	22.15

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TEST REPORT ON CONCRETE CUBES

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Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2019	31.01.2019	8.124	325.6	14.47
2	24.01.2019	31.01.2019	8.146	352.4	15.66
3	24.01.2019	31.01.2019	8.132	334.2	14.85

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Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2019	21.02.2019	8.247	524.6	23.32
2	24.01.2019	21.02.2019	8.263	507.8	22.57
3	24.01.2019	21.02.2019	8.251	498.3	22.15

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Date: 11.02.2019

TEST REPORT ON CONCRETE CUBES

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Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2019	11.02.2019	8.125	325.6	14.47
2	04.02.2019	11.02.2019	8.136	334.7	14.88
3	04.02.2019	11.02.2019	8.145	345.2	15.34

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Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2019	11.02.2019	8.125	342.6	15.23
2	04.02.2019	11.02.2019	8.136	352.4	15.66
3	04.02.2019	11.02.2019	8.149	335.2	14.90

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2019	11.02.2019	8.156	325.6	14.47
2	04.02.2019	11.02.2019	8.134	348.2	15.48
3	04.02.2019	11.02.2019	8.145	352.6	15.67

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2019	11.02.2019	8.126	326.5	14.51
2	04.02.2019	11.02.2019	8.134	342.5	15.22
3	04.02.2019	11.02.2019	8.145	338.2	15.03

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.39/2018-19 Date: 11.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Construction drain and Concrete Main roads and Cross Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra. Package No. DZ 2017-18(05), BBMP, Bangalore.
Name of the Road	: Construction drain and Concrete Main Roads of Vidyanagara Dasarahalli ward No.39 Chokkasandra.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.02.2019	11.02.2019	8.124	326.5	14.51
2	04.02.2019	11.02.2019	8.136	333.4	14.82
3	04.02.2019	11.02.2019	8.152	342.5	15.22

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